IN THE SPECIFICATION

Please replace paragraph [0059] with the following marked up paragraph:

[0059] A scale $j \in \{1 \ldots J\}$ is assigned to each block of an image of size M x N, so that a cost function Λ is maximized,

$$S_{opt} = \arg \max_{S \in \{1 \ldots J\}^{M \times N}} \Lambda(S, B) \qquad (8)$$

where S_{opt} is the optimal segmentation map for the entire image, S is one of the $J^{M \times N}$ ~~J^{MN}~~ possible labelings. ~~In one embodiment, each~~ of blocks ~~represents a pixel of an image~~ of size $m \times n$ ~~$M \times N$~~, where there are $\frac{M/2^j}{m} \times \frac{N/2^j}{n}$ blocks of size $m \times n$ at level $j \in \{1 \ldots J\}$, with each ~~pixel~~ block assigned one of the scales in $\{1 \ldots J\}$, and $\Lambda(S, B)$ yields the cost given any segmentation S and any entropy distribution B. ~~In another embodiment, S_{opt} is the optimal segmentation map for the image composed of blocks, greater than one pixel, of size $m \times n$.~~